

Rupin Vijan

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EDUCATION

- **Guru Tegh Bahadur Institute of Technology** Delhi, India
• *B.Tech in Information Technology; GPA: 9.2/10* 2020 – 2024

SKILLS SUMMARY

- **Languages:** Java, Swift, SQL, Python, JavaScript, TypeScript, C++
- **Frameworks:** Electron.js, macOS Accessibility API, Spring Boot, Node.js, Express.js, React.js, Next.js
- **Databases:** PostgreSQL, CockroachDB, MySQL, MongoDB, DynamoDB, Redis, Elasticsearch
- **Cloud & DevOps:** AWS (Lambda, ECS, SQS, API Gateway), Docker, Kubernetes, CI/CD, Terraform
- **System Design:** Microservices, Event-Driven Architecture, RESTful APIs, Distributed Caching

EXPERIENCE

- **Belzabar** Aug 2023 – Present
• *Software Engineer* Delhi, India
 - Architected a high-performance hybrid search platform using Spring Boot and **ElasticSearch**; optimized JVM memory management and implemented connection pooling to reduce query latency by 30%.
 - Designed scalable microservices on AWS ECS for AI recommendations; utilized advanced SQL window functions and CTEs to aggregate millions of user interaction records in real-time.
 - Engineered a fault-tolerant payment processing system handling \$500K+ monthly; leveraged AWS SQS and Lambda for asynchronous event-driven processing, ensuring 100% data consistency.
 - Optimized database performance by analyzing query execution plans and implementing strategic indexing on PostgreSQL, resulting in a 40% reduction in CPU load during peak traffic.
- **Nasscom Foundation** Nov 2022 – July 2023
• *Fellow Maker Expert* Noida, India
 - Consulted 50+ startups on scalable backend architectures, specifically advising on **database schema design** and cloud migration strategies.
 - Refactored legacy codebases to modern MVC architectures, significantly improving maintainability and deployment velocity for startup MVPs.
- **PlyPicker** Sept 2022 – Nov 2022
• *Software Developer Intern* Pune, India
 - Developed highly responsive RESTful APIs using Node.js and MongoDB; implemented aggregation pipelines for complex data filtering.
 - Integrated JWT-based authentication and role-based access control (RBAC) to secure sensitive user data.

PROJECTS

- **Shram AI (Electron.js, Swift, Accessibility API):** Engineered a proprietary native macOS module using **Swift** and **Accessibility API** to autonomously fetch on-screen content. This eliminated reliance on expensive third-party OCR services, slashing operational data costs by **60%** and reducing latency by 200ms.
- **Satyug (Node.js, MongoDB, Next.js):** An interactive virtual platform. Designed a low-latency game server architecture and optimized database read/write throughput for real-time user state management.
- **Digital Ram Mandir:** Developed a viral web platform officially promoted by the **BJP Government** during UP & Bihar elections. Architected a resilient content delivery system to handle massive concurrent traffic spikes during campaign events.

HONORS & AWARDS

- **Top 2 Product on Product Hunt (Shram AI):** Recognized globally for technical innovation in the productivity space.
- **Best Technical Innovation (University Capstone):** Awarded 1st place among final year projects for architecting the Shram AI native module, cited for reducing operational costs by 60
- **Hackathon Category Winner (Fintech):** Secured ‘Best Fintech Solution’ for building a rapid payment gateway integration in under 24 hours involving complex system design challenges.